FIG-1

FIG_2

FIG 4

FIG-5

FIG-3

FIG - 6A

FIG 6

FIG _7A

FIG _7B

FIG _7C

FIG _8A

FIG 8B

FIG - 9

110

akZk		ZM		DM
A1				

| Ws-Syn | | akZk Lst Sq | | Integrate Smooth |
| A2 | | C1 | | D1 |

| | | Ws-ZM | | Ws-DM |
| | | C2 | | D2 |

| Ws-Syn |
| A3 |

| Noise |
| B1 |

| HSS |
| A4 |

| Diff-ZM |
| E1 |

| Ws-est |
| A5 |

| Diff-DM |
| E2 |

| ZM | | DM |

| Diff-DM-ZM |
| E3 |

FIG _ 10

FIG-11A

Orig Surface

FIG-11B

DM surface

FIG-11C

Diff DM

Orig Surface

DM surface

Diff DM

FIG-11D

FIG-11E

FIG-11F

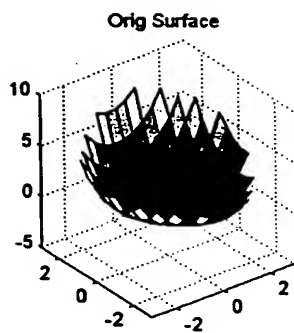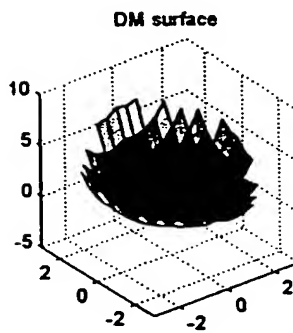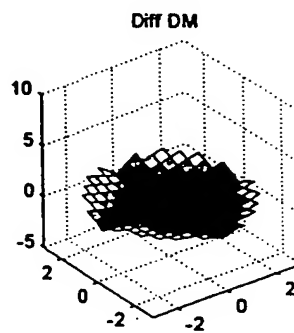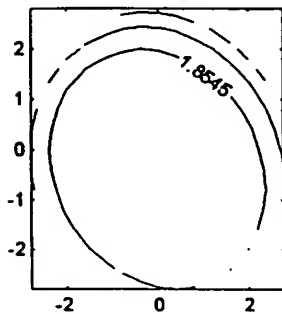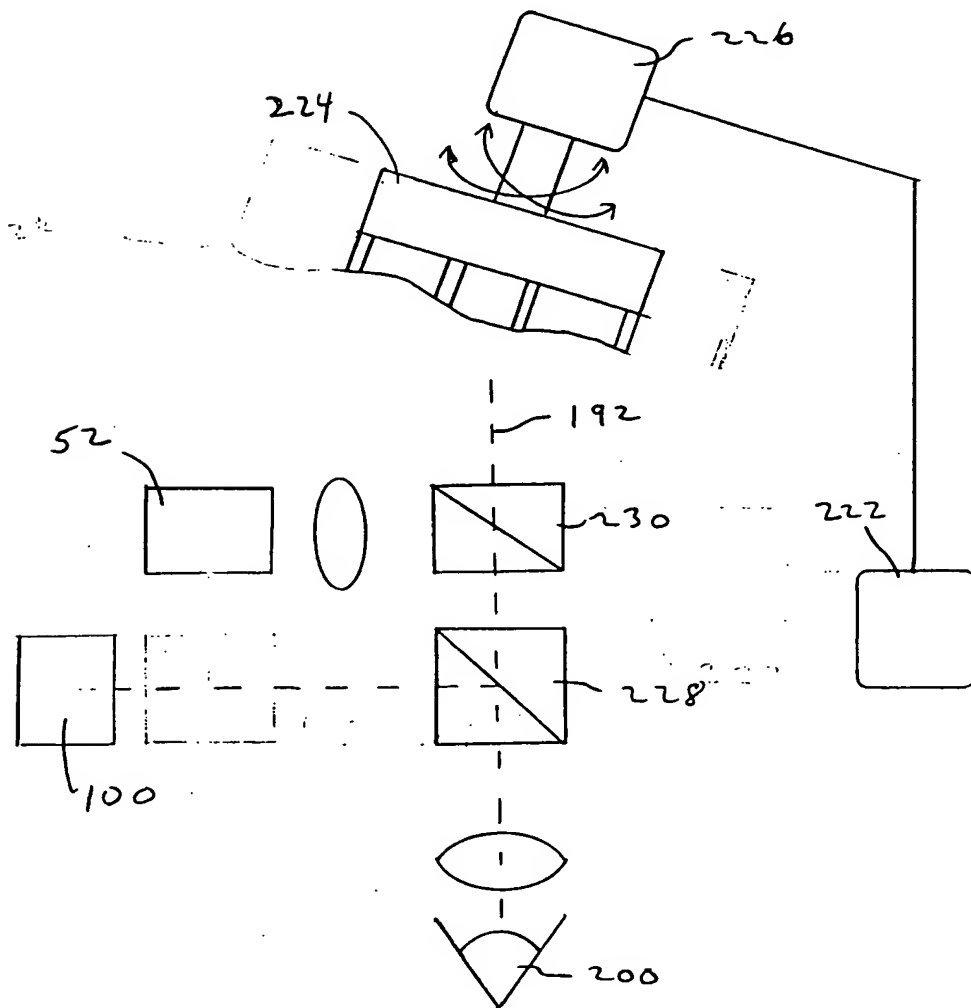| j	$n(\rho)$	$m(\theta)$	(C)		Names	Order
0	0	0	(1)	$Z_0 = 1$ $Z_0 = 1$	Piston	
1	1	-1	(3)	$Z_1 = \rho \sin\theta$ $Z_1 = y$	Tip	Low
2	1	1	(2)	$Z_2 = \rho \sin\theta$ $Z_2 = x$	Tilt	
3	2	-2	(5)	$Z_3 = \rho^2 \sin2\theta$ $Z_3 = 2xy$	Astig-45deg	
4	2	0	(4)	$Z_4 = 2\rho^2 - 1$ $Z_4 = 2(x^2 + y^2) - 1$	Sphere	
5	2	2	(6)	$Z_5 = \rho^2 \sin2\theta$ $Z_5 = x^2 - y^2$	Astig-Q90deg	
6	3	-3	(9)	$Z_6 = \rho^2 \sin3\theta$ $Z_6 = y(3x^2 - y^2)$	Coma	
7	3	-1	(7)	$Z_7 = (3\rho3 - 2\rho)\sin\theta$ $Z_7 = y(3(x^2 + y^2) - 2)$		Medium
8	3	1	(8)	$Z_8 = (3\rho^3 - 2\rho)\cos\theta$ $Z_8 = x(3(x^2 + y^2) - 2)$		
9	3	3	(10)	$Z_9 = \rho^3 \cos3\theta$ $Z_9 = x(x^2 - 3y^2)$	Coma	
10	4	-4	(15)	$Z_{10} = 4\rho^4 \sin4\theta$ $Z_{10} = 4xy(x^2 - y^2)$		
11	4	-2	(13)	$Z_{11} = (4\rho^4 - 3\rho^2)\sin2\theta$ $Z_{11} = 2xy(4(x^2 + y^2) - 3)$		
12	4	0	(11)	$Z_{12} = 6\rho^4 - 6\rho^2 + 1$ $Z_{11} = 1 + 6[(x^2 + y^2)^2 - (x^2 + y^2)]$	Spher Aberration	
13	4	2	(12)	$Z_{13} = (4\rho^4 - 3\rho^2)\cos2\theta$ $Z_{13} = 4(x^4 - y^4) - 3(x^2 - y^2)$		
14	4	4	(14)	$Z_{14} = 4\rho^4 4\cos4\theta$ $Z_{14} = x^4 + y^4 - 6x^2 y^2$		

Fig. 12

192
194
202
196
200
198
204
206

FIG_13

INTENSITY

212
214
210
216
218

DISTANCE ON RETINA

FIG_14

226

224

192

52

230

222

228

100

200

F.I.G — 15

FIG_15A

250 —

CHARACTERIZE ... ... ABERRATIONS ⌐ 252

CORRESPOND ABERRATIONS TO TISSUE ⌐ 254

256

IS TISSUE CORNEA?

YES

NO

258

SELECT ABERRATION FOR TREATMENT

260

IS TISSUE LENS?

YES

NO

IS ORDER ≤ 2

YES

NO

262

EXCLUDE ABERRATION FROM TREATMENT

264

FORM OPTICAL TREATMENT SURFACE ⌐ 266

FIG_16